

Title (en)  
Image resolution conversion

Title (de)  
Umwandlung der Bildauflösung

Title (fr)  
Changement de la résolution d'images

Publication  
**EP 1585310 A1 20051012 (EN)**

Application  
**EP 04392013 A 20040330**

Priority  
EP 04392013 A 20040330

Abstract (en)  
Methods to convert the resolution of digital images have been achieved. The methods invented support the decrease or the increase of the resolution of digital images, even enlargement in one direction and decimation in the other direction. The methods invented are applicable for any color space used. In case of decimation the method invented combines an interpolation of source pixels to calculate the color values of the destination pixels and omitting some rows of source pixels. A linear interpolation method is used to get a fast result of the interpolation. In case of an enlargement of a digital image in one or two directions the method invented combines the calculation of the color values of the destination pixels by an interpolation of the nearest source pixels with an extrapolation of the destination pixels being close to the edge of the image according to the scale of the conversion of resolution in one or two directions. <IMAGE>

IPC 1-7  
**H04N 1/40**; **G06T 3/40**; **H04N 5/262**

IPC 8 full level  
**G06K 9/64** (2006.01); **G06T 3/40** (2006.01); **H04N 1/40** (2006.01); **H04N 5/262** (2006.01)

CPC (source: EP US)  
**G06T 3/4023** (2013.01 - EP US); **G06T 3/403** (2013.01 - EP US)

Citation (search report)

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